



west virginia department of environmental protection

Division of Air Quality
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Jim Justice, Governor
Austin Caperton, Cabinet Secretary
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MEMORANDUM

To: File
From: William T. Rothwell II
Date: March 30, 2017
Subject: SWN Production Company, LLC - Schostag Well Pad - Marshall County, WV
ID #: 051-00239
APP #: PD17-002

WELL PAD INFORMATION:

The above subject well pad includes three well heads, four heater treaters, low pressure separators, and three 400 barrel produced water storage tanks along with produced water truck loading. There are no flares, compressor engines, condensate tanks or condensate truck loading associated with this facility and source aggregation to determine major source and PSD is not applicable to this site due to the fact that the subject well pad is not considered to be on contiguous or adjacent to other Antero properties in the area.

The applicant is not subject to 45CSR6, 45CSR10, 45CSR13, 40CFR63 Subpart ZZZZ, 40CFR60 Subpart JJJJ, 40CFR60 Subpart OOOO, 40CFR60 Subpart Kb, 45CSR14, 45CSR19, or 45CSR30.

The uncontrolled emissions were calculated by SWN using ProMax 3.2 and EPA AP-42 Emission Factors and were reviewed by the writer for accuracy. The emissions from the produced water emissions (water flash, working and breathing emissions), produced water truck loading, and heater treaters combined are as follows:

<u>Pollutant</u>	<u>LB/HR</u>	<u>TPY</u>
PM	0.03	0.12
PM ₁₀	0.03	0.12
VOCs	2.85	12.47
CO	0.31	1.36
NO _x	0.37	1.61
HAPs	0.49	2.16

RECOMMENDATION:

The emission rates of regulated pollutants are below the emission limits of six (6) lb/hr and ten (10) TPY; 144 pounds per calendar day; 2 lb/hr or 5 TPY of HAPs set forth set forth in 45CSR13. The well pad will not trigger a substantive requirement of any State or Federal air quality regulation. Therefore, a permit is not required by this Division for the operation of the above mentioned well pad.



William T. Rothwell II, P.E.
Engineer

3/30/2017

Date